

IES-0104FT

4-Port 10/100TX + 1-Port 100FX Industrial Switch

- Wide-range redundant power with polarity reverse protection
- Provides EFT & ESD protection
- Wide operating temperature range from -40°C to 75°C (-E model)
- DNV Type Approved for Ships, Craft and Off-shore Platforms*



OVERVIEW

The Lantech IES-0104FT is a 4-port 10/100TX + 1-port 100FX Industrial Switch for plug-and-play installation. It can auto detect power inputs and supports wide input range from 9 to 56VDC/ -9 to -56VDC. To increase reliability, the IES-0104FT provides redundant power design with polarity reverse protection as well as EFT and ESD protections.

The Lantech IES-0104FT is designed to meet the demands of industrial environments, comes packaged in a robust IP-30 housing and has been tested extensively to meet Industrial EMI and EMC standards. Rigorous mechanical testing has also been undertaken with free fall, shock, and vibration stability test, which ensure long term reliability in critical industrial

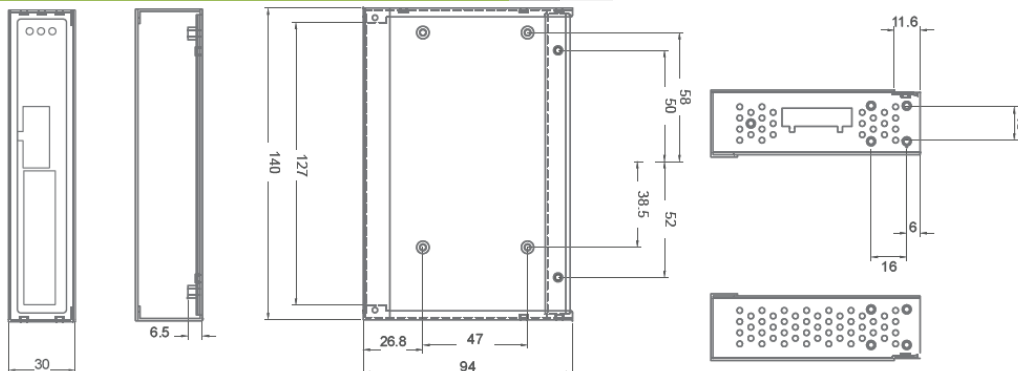
environments. The -E model can be used in extreme environments with an operating temperature range from -40°C to 75°C.

DNV-Type Approval IES-0104FT-DNV* model is also available. It meets with the most critical test criteria in DNV Type test directives consisting of MED (Marine Equipment Directive), EMC (Electromagnetic Compatibility Directive) and LVD (Low Voltage Directive) in which vibration, high voltage, compass safe distance, salt mist tests, humidity etc are conducted to ensure the switch sustaining the harsh on-board environments often founded in Ships, Crafts and Offshore platforms.

FEATURES & BENEFITS

- RJ-45 port support Auto MDI/MDI-X Function
- DNV-Type Approval model is available*
- Store-and-Forward Switching Architecture
- Back-plane (Switching Fabric): 1.0Gbps
- 2K MAC address table
- Supports Wide Operating Temperature (-40°C~75°C)
- Provides EFT protection 3000 VDC for power line
- Supports 6000 VDC Ethernet ESD protection
- Provides broadcast storm protection
- IP-30 Protection with DIN Rail and Wall Mount Design
- Power Supply
 - Wide-range Redundant Power Design
 - Power Polarity Reverse Protect
 - Overload Current Re-settable Fuse Present

DIMENSIONS (unit=mm)



SPECIFICATION

Hardware Specification				
Standards	IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX and 100Base-FX Fast Ethernet IEEE802.3x Flow Control and Back Pressure	Un- load	A	0.22A
Switch Architecture	Back-plane (Switching Fabric): 1.0Gbps Packet size throughput : 64bytes~1522bytes		W	2.64
Transfer Rate	14,880pps for Ethernet port 148,800pps for Fast Ethernet port	Full Load	A	0.35A
Mac Address	2K MAC address table		W	4.2
Connectors	10/100TX: 4 x RJ-45 with auto MDI/MDI-X function 100M fiber: 1 x SC type connector for Single-mode or Multi-mode type fiber cable [Multi-Mode] power budget: Min: 9dB , MAX: 19dB. [Single-Mode] power budget: Min: 19dB , MAX: 26dB.	Operating Humidity	5% - 95% (Non-condensing)	
Network Cable	10Base-T: 2-pair UTP/STP Cat. 3, 4, 5, 6 cable EIA/TIA-568 100-ohm (100m) 100Base-TX: 2-pair UTP/STP Cat. 5, 6 cable EIA/TIA-568 100-ohm (100m)	Operating Temperature	-20°C~60°C / -4°F~140°F (Standard model) -40°C~75°C / -40°F~167°F (-E model)	
Optical Cable	Multi-mode: 50/125um~62.5/125um Single-mode: 9/125um Available distance: 2km (Multi-mode) 30km (Single-mode) Wavelength: 1310nm (Multi-mode/Single-mode)	Storage Temperature	-40°C~85°C / -40°F~185°F	
Protocol	CSMA/CD	Case Dimension	Metal case. IP-30, 30 (W) x 95 (D) x 140(H) mm	
LED	Per port: Link/Activity (Green), Full duplex/Collision (Yellow) Per unit: Power 1 (Green), Power 2 (Green), Fault(Red)	Weight	800 g	
Reserve polarity protection	Present	Installation	DIN Rail and Wall Mount Design	
Overload current protection	Present	EMI & EMS	FCC Class A, CE EN61000-4-2 (ESD), CE EN61000-4-3 (RS), CE EN61000-4-4 (EFT), CE EN61000-4-5 (Surge), CE EN61000-4-6 (CS), CE EN61000-4-8, CE EN61000-4-11, CE EN61000-4-12, CE EN61000-6-2, CE EN61000-6-4	
Power Supply	24 VDC (9~56VDC) /-24 VDC (-9~-56VDC), 12~36VAC**,Redundant power with polarity reverse protect function and removable terminal block	Safety	CE/EN60950-1	
Power Consumption	DC input DC 12V	Stability Testing	IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-6 (Vibration)	
		MTBF	380717 hrs	
		Warranty	5 years	

*DNV models are pending.
**Optional

ORDERING INFORMATION

- **IES-0104FT-SC-MM.....P/N: 8350-330**
4 10/100TX + 1 100FX (SC, MM 2km) Industrial Switch,
Standard Operating Temperature (-20°C~60°C)
- **IES-0104FT-SC-SM.....P/N: 8350-331**
4 10/100TX + 1 100FX (SC, SM 30km) Industrial Switch,
Standard Operating Temperature (-20°C~60°C)
- **IES-0104FT-SC-MM-AC.....P/N: 8350-330-AC**
4 10/100TX + 1 100FX (SC, MM 2km) Industrial Switch,
Standard Operating Temperature (-20°C~60°C)
- **IES-0104FT-SC-SM-AC.....P/N: 8350-331-AC**
4 10/100TX + 1 100FX (SC, SM 30km) Industrial Switch,
Standard Operating Temperature (-20°C~60°C)
- **IES-0104FT-E-SC-MM.....P/N: 8350-335**
4 10/100TX + 1 100FX (SC, MM 2km) Industrial Switch,
Wide Operating Temperature (-40°C~75°C)
- **IES-0104FT-E-SC-SM.....P/N: 8350-336**
4 10/100TX + 1 100FX (SC, SM 30km) Industrial Switch,
Wide Operating Temperature (-40°C~75°C)
- **IES-0104FT-E-SC-MM-AC.....P/N: 8350-335-AC**
4 10/100TX + 1 100FX (SC, MM 2km) Industrial Switch,
Wide Operating Temperature (-40°C~75°C)
- **IES-0104FT-E-SC-SM-AC.....P/N: 8350-336-AC**
4 10/100TX + 1 100FX (SC, SM 30km) Industrial Switch,
Wide Operating Temperature (-40°C~75°C)
- **IES-0104FT-SC-MM-DNV.....P/N: 8350-335DNV***
4 10/100TX + 1 100FX (SC, MM 2km) Industrial Switch,
Wide Operating Temperature (-40°C~75°C)
*Redundant power without polarity reverse protect function
- **IES-0104FT-SC-SM-DNV.....P/N: 8350-336DNV***
4 10/100TX + 1 100FX (SC, SM 30km) Industrial Switch,
Wide Operating Temperature (-40°C~75°C)
*Redundant power without polarity reverse protect function
- **IES-0104FT-SC-MM-DNV-AC..P/N: 8350-335DNV-AC***
4 10/100TX + 1 100FX (SC, MM 2km) Industrial Switch,
Wide Operating Temperature (-40°C~75°C)
*Redundant power without polarity reverse protect function
- **IES-0104FT-SC-SM-DNV-AC..P/N: 8350-336DNV-AC***
4 10/100TX + 1 100FX (SC, SM 30km) Industrial Switch,
Wide Operating Temperature (-40°C~75°C)
*Redundant power without polarity reverse protect function

*DNV models are pending

OPTIONAL ACCESSORIES

DIN Rail Power

- **AD1048-24FS** 24VDC, 2A, Wide AC Input, Convection Cooled, DIN Rail or Wall Mounted, RoHS, Operating Temp. -20°C~50°C (ambient, derating each output at 2.5% per degree from 50°C ~ 75°C, which means the output is 18 Watts at 75°C.)
- **AD1024-24F** 24VDC, 1A, Wide AC Input, Convection Cooled, DIN Rail or Wall Mounted, RoHS, Operating Temp. -20°C~50°C (ambient, derating each output at 2.5% per degree from 50°C ~ 75°C, which means the output is 9 Watts at 75°C.)
- **AD1240-48S** 48VDC, 5A, Wide AC Input, Build-in fan Cooled, DIN Rail or Wall Mounted, RoHS, Operating Temp. -20°C~50°C (ambient, derating each output at 2.5% per degree from 50°C ~ 70°C)
- **AD1120-48F** 48VDC, 2.5A, Wide AC Input, Build-in fan Cooled, DIN Rail or Wall Mounted, RoHS, Operating Temp. -20°C~50°C (ambient, derating each output at 2.5% per degree from 50°C ~ 70°C)

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